

WHAT IS CLAIMED IS

1. A system for displaying radar data from two or more areas of interest comprising:

5 a first display system receiving first vehicle speed data for a first vehicle and generating user-readable display data;

a second display system receiving second vehicle speed data for a second vehicle and generating user-readable display data; and

10 wherein the first vehicle and the second vehicle are travelling in different directions.

2. The system of claim 1 wherein the first display system is an opposite lane display system.

15

3. The system of claim 1 wherein the first display system is a same lane display system.

4. The system of claim 1 wherein the first display
20 system is a front system.

5. The system of claim 1 wherein the first display system is a back system.

25 6. The system of claim 1 wherein the first display system further comprises a history system receiving first vehicle historical speed data and generating user-readable display data.

7. The system of claim 1 further comprising one or more additional display systems, each additional display system receiving vehicle speed data for an additional vehicle and generating user-readable display data for that
5 additional vehicle.

8. A method for displaying radar data for two or more vehicles comprising:

receiving speed data for a first vehicle travelling in a first direction;

5 receiving speed data for a second vehicle travelling in a second direction; and

generating a user readable display containing the speed data for the first vehicle and the second vehicle.

10 9. The method of claim 8 wherein the first direction is a same lane of travel as the radar observation point and in front of the radar observation point.

15 10. The method of claim 8 wherein the first direction is a same lane of travel as the radar observation point and behind the radar observation point.

20 11. The method of claim 8 wherein the first direction is an opposite lane of travel as the radar observation point and in front of the radar observation point.

25 12. The method of claim 8 wherein the first direction is an opposite lane of travel as the radar observation point behind the radar observation point.

13. A controller for use in selecting the display of radar data for two or more vehicles comprising:

a first user-selectable direction select control allowing a user to select radar data for vehicles travelling
5 in a first direction relative to an observation point;

a second user-selectable direction select control allowing the user to select radar data for vehicles travelling in a second direction relative to an observation point; and

10 wherein a user-readable display generates speed data for vehicles travelling in the first direction and the second direction in response to the first and second user-selectable direction select control.

15 14. The controller of claim 13 wherein the controller further comprises an infrared remote controller.

20 15. The controller of claim 13 wherein the controller further comprises a touch-sensitive display.

25 16. The controller of claim 13 wherein the first user-selectable direction select control and the second user-selectable direction select control both comprise a single user-configurable preset control.

30 17. The controller of claim 13 further comprising one or more additional user-selectable direction select controls, each allowing the user to select radar data for vehicles travelling in a direction relative to an observation point that is different from the direction associated with any of the other user-selectable direction select controls.

18. The controller of claim 13 further comprising a
strongest select control allowing the user to select to view
speed data for a vehicle travelling in a selected direction
5 having a strongest radar signal.

19. The controller of claim 13 further comprising a
fastest select control allowing the user to select to view
speed data for a vehicle travelling in a selected direction
10 having a fastest speed.

20. The controller of claim 13 further comprising a
history select control allowing the user to select to view
history data for a vehicle.
15